Amendments to the Specification

Please replace the paragraph beginning at page 4, line 23 with the following:

    A user may populate the entries in the router topology table 285 by downloading the router topology information from Cooperative Association of Internet Data Analysis (CAIDA), which may be accessed on line. ~~at www.caida.org~~. ~~The web page www/caida.org/tools/measurement/skitter/research.html describes the procedure for downloading the CAIDA database.~~

Please replace the paragraph beginning at page 4, line 28 with the following:

    Host table 290 may include information about a sample of hosts in regions 1, 2, and 3. Each entry in the host table 290 may include, for example, a host name, a host address, and associated region information. A host name may include a web name. ~~, such as "www.telcordia.com"~~. A host name may include a network address, such as an IP address of a host in a network 100. Region information may include, for example, the name of the country, state, city, town, etc. where a host is located.

Please replace the paragraph beginning at page 5, line 3 with the following:

    A user may populate the entries in a host table 290 by downloading sample host information from, for example, Netsizer, a tool developed and made available by Telcordia Technologies, Inc. ~~at www.netsizer.com~~. A Netsize database includes names and addresses of sample hosts worldwide. The user may purchase from Telcordia Technologies, Inc. a copy of the database and load portions or all of the database into host table 290. ~~The user may purchase a copy of the Netsizer database through the web page www.netsizer.com.memebers2.html~~.

Please replace the paragraph beginning at page 6, line 8 with the following:

    Traffic measuring program 260 may then determine the used bandwidth of each of the identified backbone links connecting the routers 110 in region 1 to those in region 2 (step 320). For example, traffic measuring program 260 may invoke a getbandwidth () routine to estimate the used bandwidth of each identified backbone link. The getbandwidth() routine may be purchased from Telcordia Technologies, as part of the Netsizer tool and bounded by the traffic measuring program 260. ~~The getbandwidth() routine may be purchased through the web page www.netsizer.com/members2.html~~.

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Please replace the paragraph beginning at page 7, line18 with the following:

    Traffic measuring program 260 may then invoke any commercially available software, such as SAS, SPSS, Splus, etc. to estimate each of the parameters. These software packages are developed by SAS Institute, SPSS, and Splus, respectively. ~~Further information on SAS, SPSS, and Splus software packages is available on the following web-sites: ww.sas.com, www.spss.com, and ww.splus.com.~~

Please replace the paragraph beginning at page 7, line 23 with the following:

    Traffic measuring program 260 may use a least squares method, such as that of the Splus software to estimate the parameters α, β, γ and λ. Alternatively, <u>the</u> traffic measuring program may invoke the Base SAS tool .~~disclosed in web page hhtp://www.sas.com.products/base/index.html.~~ Figure 4B is a graphical representation of a resulting continuous traffic model based on the estimated parameters. Traffic measuring program 260 may then determine the total traffic T flowing between regions 1 and 2 by integrating the traffic model $I(t)$ over the period of time $P = (t_0, t_1)$, as shown by the shaded area in Figure 4B.

Please replace the paragraph beginning at page 9, line 9 with the following:

    Figure 6 is a flow chart of the steps traffic measuring program 260 performs to remotely measure network traffic within region 1, in accordance with methods and systems consistent with the present invention. Traffic measuring program 260 may select from host table 290 a sample of hosts 510 that include one or more web ~~severs~~ <u>servers</u> and located in region 1 (step 600). To identify such sample hosts 510, traffic measuring program 260 may parse each host name in the entries of host table 290 to identify those hosts 510 whose host names include the term ~~"www"~~ <u>for the world wide web</u>.

Please replace the paragraph beginning at page 10, line 24 with the following:

    Traffic measuring program 260 may then estimate the total number N of hosts 510 in region 1 by invoking, for example, a host_estimate() routine of the Netsizer tool. The host_estimate routine may be purchased from Telcordia Technologies., Inc. ~~from web page www.netsizer.com/members2.html.~~

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